

CIOBANU, V.

ZAMFIR, C.; MARINESCU, B.; CIOBANU, V.; TURCU, E.; GHEORGHIU, GH.; ZELTER, E.

Penicillin therapy of endocarditis lenta. Probl. card., Bucur.
2:61-96 1956.

(ENDOCARDITIS, SUBACUTE BACTERIAL, therapy
penicillin)

(PENICILLIN, ther. use
endocarditis, subacute bact.)

ZAMFIR, C.; TURCU, E.; ^{CIOBANU, V.} GIOBANU, V.; MARINESCU, B.

Study of sodium salicylate therapy of rheumatic pericarditis, myopericarditis and pancarditis. Probl. reumat., Bucur. 4:91-114 1956.

(RHEUMATIC HEART DISEASE, therapy
sodium salicylate, results in pericarditis &
pancarditis)
(SODIUM SALICYLATE, ther. use
rheum. pericarditis & pancarditis, results)
(PERICARDITIS, therapy
sodium salicylate in rheum. pericarditis)

CIOBANU, V.

The problem of diseases caused by autoaggression. Med. int., Bucur.
9 no.12:1780-1792 Dec 57.

1. Clinica medicala a Spitalului "Colentina" (director: acad. N. Gh.
Lupu).

(IMMUNITY

auto-immun. in etiol. of various dis., review)

CIORANU, V., Candidate in Medical Sciences

Liver Cirrhosis, an auto-aggression disease. Rumanian M. Rev.
4 no.1:40-43 Ja-Mr '60.

1. Abstract from "The role of auto-aggression in the pathogenesis
of hepatic cirrhosis", dissertation thesis, presented at the
Medicopharmaceutical Institute, Bucharest, in July 1958.
(LIVER CIRRHOSIS exper.)

CIOBANU, V.

POPESCU, Iuliu; GIOHANU, V.

Chronic interstitial nephritis. Med. int., Bucur. 9 no.12:1803-1813
Dec 57.

(NEPHRITIS, INTERSTITIAL, case reports
chronic)

CIOBANU V

Distr: 4E2c(j)

Problems in the manufacture of poly(vinyl alcohol) fibers. Alexandru Lupu, Virgil Ciobanu, Eklat. Maritan, Florica Butaciu, and Alecu Ciocanel (Inst. for Chem. Res., Bucuresti, Romania). *Faserforsch. u. Textiltech.* 11, 213-18 (1960).—The relations between certain manufg. operations and the properties of the resulting fibers were studied. The increase in viscosity of the pptg. bath with increasing concn. is sharpest in the 18-20% concn. range. Filterability decreases with increasing polymer concn. The viscosity decreases sharply with increasing temps. in the 20-50° temp. range and slowly at higher temps. Na₂SO₄ has high coagulating efficiency, however, to achieve a homogeneous coagulation throughout the entire fiber cross-section, the addn. of 20-30% ZnSO₄ is necessary; this will somewhat reduce the efficiency of Na₂SO₄. To avoid the crystn. of the salts the temp. of the pptg. bath must be kept between 40 and 45°. (NH₄)₂SO₄ will ppt. the poly(vinyl alc.); however, owing to its low efficiency, additives will serve no useful purpose. Baths contg. ZnSO₄ only will cause no pptn. even at high concns. Owing to the fact that the soly. of NaCl in water is limited, this salt is not practicable for use as coagulant. Acetone, cyclohexanone, EtOH, MeOH, AcOEt, and cyclohexanol also have coagulating ability; however, to a much

lower extent than inorg. salts. The soly. of poly(vinyl alc.) fibers in mild. salt solns. (used for the rinsing of the freshly pptd. fiber) is lowest with low concns., at low temp., and with contact periods not exceeding 1-2 min. The soly. of the fiber in water increases with increasing temp. and (or) increasing exposure duration and decreases with an increasing degree of stretch in the fiber. During heat-setting the initial crystallinity of the fiber will increase from 40-50% to 70-85%; this causes a redn. in shrinkage and hot-water soly. The degree of acetalization, under identical acetalizing conditions, depends upon the crystallinity of the fiber. The acetalization is considered to be confined to the fiber surface and to the amorphous portions only. Conversely, the

degree of acetalization can be used to establish the degree of crystallinity. Heat-setting in the relaxed condition causes a higher degree of crystallinity than setting under stress. Max. crystallinity is achieved by presetting at lower temps. (150-80°) followed by setting at higher temps. (220-30°) without stress. Fibers with a high (60-85%) degree of acetalization and a low degree of crystallinity show the highest shrinkage in hot water, while fibers in which only 1/3 of the OH groups are acetalized will not shrink even at a high degree of crystallinity. G. J. Broyer

alt

7
1968 (10)

GIOBANU, V., dr.; RUNCAN, V., dr.; CLIPEA, N., intern

Contributions to the study of a mixed form of chronic polyarticular rheumatism. Med. intern., Bucur 12 no.9:1319-1325 S '60.

1. Lucrare efectuată in Institutul de medicina interna, director, acad. N.Gh.Lupu.

(ARTHRITIS, RHEUMATOID)

STOICHITA, Mihaela; GIOBANU, V.; GHEORGHIU, Maria

The action of streptococcal antigens on coagulation factors. Studies
in vitro. Stud. cercet. med. intern. 2 no.5:693-698 '61.

(BLOOD COAGULATION) (STREPTOCOCCUS immunology)
(STREPTOLYSIN pharmacology) (POLYSACCHARIDES pharmacology)

ZAMFIR, C., dr.; TURCU, E., dr.; GIOBANU, V., dr.; GIOBA, Gh., dr.

Considerations on the evolution and treatment of rheumatic pericarditis and myopericarditis. Med. inter., Bacur 13 no.3:78-88 Mr '61.

1. Lucrare efectuata in Sectia I de boli interne, Spitalul militar central.

(RHEUMATIC HEART DISEASE therapy) (SALICYLATES therapy)
(ADRENAL CORTEX HORMONES therapy)

CIOBANU, V., dr.; VELICAN, Doina, candidat in stinte medicale, dr.

Hydralazine syndrome after prolonged treatment with adelphan. Med. inter., Bucur 13 no. 3:445-452 Mr '61.

1. Institutul de medicina interna al Academiei R.P.R., si M.S.P.S.,
director acad. N.Gh.Lupu.

(HYDRAZINES toxicology) (RESERPINE toxicology)
(HYPERTENSION therapy)

LUPU, N.Gh., acad.; GIOBANU, V., dr.

Contribution to the study of the pathogenic relationships between
viral hepatitis and liver cirrhosis. Med. inter., Bucur 13 no.5:
659-665 My '61;
(HEPATITIS, INFECTIOUS complications)
(LIVER CIRRHOSIS etiology)

CIOBANU, V., dr., VELIGAN, Doina, dr., candidat in stiinte medicale;
SUTEANU, St., dr.

Contributions to the study of the articular manifestations of
xanthomatosis. Med. intern. 13 no.12:1633-1644 D '61.

1. Lucrare efectuata in Institutul de medicina interna al Academiei
R.P.R. si Ministerul Sanatatii si Prevederilor Sociale, director,
acad. N.Gh. Lupu.
(LIPOIDOSIS complications) (JOINTS diseases)

GEORGESCU, Amilcar; VULPESCU, Sonia; CIOBANU, V.; DUMITRIU, L.; GRANCEA, Alexandra; BUJAR, H.

Considerations on the radiodiagnosis and x-ray therapy of periarthrititis of the shoulder. Stud. cercet. med. intern. 2 no.4:489-497 '61.

(PERIARTHRTIS radiography) (SHOULDER diseases)
(RADIOTHERAPY)

LUPU, N.G., acad.; CIOBANU, V.

Contributions to the study of the pathogenic relationship between viral hepatitis and cirrhosis of the liver. Rumanian M Rev. no. 15-19 '61.
(HEPATITIS, INFECTIOUS compl.) (LIVER CIRRHOSIS etiol.)

PAUNESCU-PODEANU, A., prof.; CIOBANU, V., dr.

Vertebrogenic visceropathies. Critical analysis of visceral disorders
produced by diseases of the spinal column. Med. intern. 14 no.6:641-648
Je '62.

(SPINAL DISEASES) (GASTROENTEROLOGY)
(CARDIOVASCULAR DISEASES) (RESPIRATORY INSUFFICIENCY)
(NEUROLOGIC MANIFESTATIONS) (CEREBROVASCULAR DISORDERS)

CIOBANU, V., dr.

Anatomoclinical aspects of degenerative vertebral pathology. Med.
intern. 14 no.7:801-805 JI '62.

1. Lucrare efectuata la Institutul de medicina interna al Academiei
R.P.R. si al Ministerului Sanatatii si Prevederilor Sociale (Director:
Acad. N. Gh. Lupu).

(SPINAL DISEASES) (BACKACHE)

VELICAN, G.; CIOBANU, V.; MIKHAILESCU, Eugenia; SUTIANU, St.

Research on the cyto- and histochemistry of lymphadenopathy of chronic
evolutive polyarthritis. Stud. cercet. med. intern. 3 no.1:69-76
'62.

(ARTHRITIS, RHEUMATOID chemistry)
(LYMPH NODES chemistry) (MUCOPOLYSACCHARIDES chemistry)
(RIBONUCLEIC ACID chemistry) (LIPOPROTEINS chemistry)

CIOBANU, V.; STOICHITA, M.; OPRESCU, C.; GHEORGHIU, M.

Clinical and experimental research on the role of tuberculous allergy
in the pathogenesis of rheumatoid polyarthrititis. Stud. cercet. med.
intern. 3 no.1:77-94 '62.

(ARTHRITIS, RHEUMATOID etiology) (TUBERCULOSIS complications)

GIOBANU, V.; VELICAN, Doina; SUTEANU, St.

Contributions to the study of articular manifestations in
xanthomatosis. Rumanian med. rev. no.2:18-25 '62.
(XANTHOMATOSIS)

BALACEANU, Mariana; CHIVU, Viorica; CIOBANU, V.

Investigations of the elimination of catecholamines in chronic
evolutive polyarthritis. Stud. cercet. med. intern. 3 no.5:607-
615 '62.

(ARTHRITIS)

(CATECHOLAMINES)

IOTA, C.G.; STOICA, Gh.; CIOBANU, V.

Critical observations on the investigation of histoaminopexic capacity of the blood in chronic evolutive polyarthritis. Stud. cercet. med. intern. 3 no.5:617-622 '62.

(ARTHRITIS, RHEUMATOID)

(HISTAMINE)

(BLOOD)

CIOBANU, V.; STOICHITA, Mihaela; TEICAN-GHEORGHIU, Maria

Studies of the interrelationships between fibrogen and polysaccharides in some pathological states. II. Experimental investigations of the peripheral origin of hyperinosis. Stud. cercet. med. intern. 3 no.6: 785-789 '62.

(FIBRIN) (FIBRINOGEN) (POLYSACCHARIDES)
(RHEUMATISM)

STOICA, Gh.; CIOBANU, V.; STROESCU, Ortansa; VASILIU, I.; SUTEANU, St.

Comparative value of several rheumatoid factor titration tests. I.
The hemagglutination test and the fixation test using the latex of
styrene-acrylonitrile copolymer. Stud. cercet. med. intern. 3 no.4:
485-494 '62.

(HEMAGGLUTINATION) (RHEUMATOID FACTOR)
(SERODIAGNOSIS)

TIMARIU, Gh.; ROSU, Gh.; CIOBANU, V.; PINZARU, D.

Determining optimum harvesting moment for some double hybrids
of maize cultivated in view of ensilage. Studii biol agr Iasi
13 no.1:183-192 '62.

GEORGESCU, A.; CIOBANU, V.; VULPESCU, Sofia; VASILIU, I.; DUMITRIU, ⁴
BUJAR, H.; PIRVU, Victoria

The radiological study of the osteoarticular lesions in
chronic evolutive polyarthritis. Contribution to the
radiological diagnosis of incipient lessions. Stud cercet
med intern 4 no.3:327-341 '63.

(ARTHRITIS, RHEUMATOID)

STOICA, G.; SOLOMON, O.F.; GIOBANU, V.; VASILIU, I.

Investigations of the interaction of the rheumatoid factor
and gamma globulin. II. Inhibition of agglutination of latex
particles. Stud cercet med intern 4 no.3:377-386 '63.

(RHEUMATOID FACTOR) (GAMMA GLOBULIN) (AGGLUTINATION)
(RUBBER) (ARTHRITIS, RHEUMATOID) (SERODIAGNOSIS)

ALEXANDRU, L.; CIOBANU, V.; COSTIAN, D.

Fibers from polypropylene. Note 1. Rev chimie Min petr 14 no.9:
515-519 S '63.

CIOBANU, V., dr.; GEORGESCU, Carmen, dr.; POPESCU, Iuliu, dr.;
SUTEANU, St., dr.

Pulmonary hypertrophic osteoarthropathy and rheumatoid manifestations revealing pulmonary cancer. Med. intern. 15 no.7: 829-838 JI '63.

1. Lucrare efectuata in Institutul de medicina interna al Academiei R.P.R. si Ministerul Sanatatii si Prevederilor Sociale (director: acad. N.Gh. Lupu).

(LUNG NEOPLASMS)

(OSTEOARTHROPATHY, SECONDARY HYPERTROPHIC)

(ARTHRITIS, RHEUMATOID)

CIOBANU, V., dr.; STOICHITA, Mihaela, dr.; GHEORGHIU, Maria, dr.; OPRESCU,
C.C., dr.

Research on the pathogenesis of experimental endocarditis. Med.
intern. (Bucur.) 16 no.6:665-669 Je'64

1. Lucrare efectuata in Institutul de medicina interna al Aca-
demiei R.P.R. si M.S.P.S. (director: acad. N.Gh. Lupu).

LUPU, N.Gh. acad; BALACEANU, Mariana; NICULESCU-ZINCA, D.; CIOBANU, V.;
STAN, M.

Clinical and laboratory study of thyroid function in chronic
evolutive polyarthritiis and of the relations between Hashimoto's
disease and chronic evolutive polyarthritiis. Stud. cercet. med.
intern. 5 no.1:19-29 '64

STROESCU, Ortansa; IOEA, C.G.; CIORANU, V.; PAPAZIAN, Ripsimia; VOLPESCU,
Sonia

Contributions to the study of respiratory function in collagen
diseases. Stud. cercet. med. intern. 5 no.6:667-682 '64.

CIOBANU, V., dr.; VELICAN, C.dr.; STROESCU, O, dr.; SUTEANU, St., dr.;

Anatomoclinical study of lymphadenopathies in chronic evolutive polyarthritiis. Med. intern. (Bucur.) 16 no.7:793-802 J1'64

1. Lucrare efectuata in Institutul de medicina interna al Academiei R.P.R. si M.S.P.S. (director: acad. N.Gh.Iupu).

STOICHITA, Mihaela; GHEORGHIU-TEICAN, Maria; CIOBANU, V.; PIRVU, Victoria;
VLADESCU, G.

Studies of blood coagulation changes in rheumatoid polyarthritis
and malignant collagen diseases. Stud. cercet. med. intern. 6
no.1:67-79 '65.

CIOBANU, V.; GEORGESCU, Carmen; VULPESCU, Sonia

Considerations on vertebral syphilis. Rumanian med. rev. 19 no.3:
62-65 J1-S '65.

STOICA, Gh., dr.; SUTEANU, St., dr.; CIOBANU, V., dr.; STROESCU, Ortansa, dr.;
DRAGOI, Tatiana, dr.; MICHIU, Valeria, asist.; SUSNEA, Doina, asist.

Changes in several blood proteins in rheumatoid polyarthrits.
(Immunoelectrophoretic study). Med. intern. (Bucur.) 17 no.9:
1093-1101 S '65.

1. Lucrare efectuata in Institutul de medicina interna al
Academiei Republicii Socialiste Romania si Ministerul Sana-
tatii si Prevederilor Sociale (director: acad. N. Gh. Lupu).

CIOBANU, V., prof. (Brasov)

Contributions to the knowlege of the flora of Tara Birsei.
Natura Biologie 16 no. 1:76-77 Ja-F '64.

GIOBANU, V., ing.

Fishing by electronarcosis at the Greaca Pisciculture
Enterprise. Ind alim 14 no.10:402-405 0'63.

1. Intreprinderea piscicola Greaca.

TEITEL, A.; CIORBARU-SCHWARTZ, Rita; STROESCU, V.; TRUTIA, E.

Influence of hydroxyzine on the protein composition of the
brain. Stud. cercet. fiziol. 10 no.3;227-232 '65.

CIOBESCU, Maria, ing.

Technical and Scientific Session of the Wood Industrialization
Complex, Rimnicu Vilcea. Ind. Iannului 15 no. 5:191-192 My'64

CIOBOTARU, D.

Some considerations on the luminescent discharge with a double cathode. Studii cerc fiz 16 no.9:1005-1014 '64.

1. Chair of Optics and Gas Electronics, Faculty of Physics of the Bucharest University.

CIOBOTARU, Georgeta

A review of the book Zonarea ecologica a plantelor agricole in R.P.R.
(Ecologic Zoning of Agricultural Plants in the Rumanian People's
Republic) by O.Berbecel, Gh. Valuta, and others. Studii cerc biol
veget 12 no.4:507-509 '60. (EEAI 10:5)
(Rumania--Botany) (Farm produce)
(Berbecel, O.) (Valuta, Gh.)

CIOBOTARU, P., dr.; VRABIE, Gh., dr.

Impression technic with autopolymerizable acrylate for partial crowns (onlay with 3 and 4 sides) and transformation of the model impression. Stomatologia (Bucur.) 12 no.5:419-424 '65.

1. Lucrare efectuata in serviciul de stomatologie al Policlinicii nr. 10, Bucuresti (seful serviciului: dr. P. Ciobotaru).

BLAGA, Liviu; BLAGA, Lucia; CHIFU, Alexandra; CIOBOTARU, Tamara

Total isotopic analysis of water. Studii cerc fiz 15
no. 1:43-46 '64.

1. Institute of Atomic Physics, Section 5, Cluj.

FOLTEANU, Sorin, ing.; GIOBOTARU, Virgil, ing.

Welding in the protective medium of carbon dioxide by the equipment constructed at the Galati Shipyard. Constr mas 15 no.10:687-690 0 '63.

1. The Galati Shipyard.

FOLTEANU, Sorin; CIOBOTARI, Virgil

Automatic fluxshield welding tests on flexible electromagnetic stand at the Galati shipyard. Constr mas 16 no.4:207-211
Ap*64

WIENER, U., ing.; CIOBCTEA, A., fiz

Study and realization of mutual gauging inductance.
Metrologia apl 10 no.12:553-558 D '63.

~~GIOBOTE~~A, Niculae, ing., correspondent; MOCANU, Octavian, correspondent;
SANTONESCU, M., correspondent; MATEI, Gheorghe, correspondent

With the semestral plan fulfilled. Constr Buc 14 no.651
1 30 Je '62.

29176
R/002/61/000/011/002/004
D015/D105

21.1000

AUTHOR: Ciobotea, Vasile, Engineer

TITLE: External combustion engine

PERIODICAL: Știință și Tehnică, no. 11, 1961, 9

TEXT: The article describes the principle of the closed-cycle external combustion engine and the possibility of using a nuclear reactor as a heating source. The most important part of the engine is a closed cylinder filled with a working gas, such as air, hydrogen or helium. During operation, the working gas is pushed by a piston from the hot section of the cylinder to the cold section, and vice versa. The working gas thus acts on the working piston, which translates the motion to the connecting rods and the crankshaft. The hot section of the cylinder is heated by hot gases, while the cold section is cooled by a cooling liquid, which passes through a radiator. To increase the efficiency of the engine, a heat regenerator is inserted between the hot and the cold sections of the cylinder. An important aspect of the external combustion engine is the

Card 1/2

X

29476
R/002/61/000/011/002/004
D015/D105

External combustion engine

use of a nuclear reactor as a heating source. The heat produced in the nuclear reactor is carried by a gas through a heat exchanger to the hot section of the cylinder. The external combustion engine combined with a nuclear reactor might thus be used as a power plant in future means of transportation. There are 2 figures.

Card 2/2

X

CIOBOTEA, Vasile, ing.

Construct a pulse-reactor engine. St si Teh Buc 14 no.5:42
My '62

R/002/63/000/003/001/002
A055/A126

AUTHOR: Ciobotea, Vasile, Engineer

TITLE: Centrifugal and axial-flow compressors

PERIODICAL: Știință și tehnică, no. 3, 1953, 20 - 21

TEXT: After a brief introduction in the principle, build-up and operation of centrifugal and axial-flow air compressors, the author presents the application possibilities of such compressors to aviation. On the basis of a diagram he then describes a turbofan engine provided with an axial-flow air compressor, and finally mentions the utilization possibilities of centrifugal and axial-flow compressors in turboprop engines. The Soviet "IL-18", "AN-24", "TU-114", "IL-62", "TU-104" and "TU-124" aircraft are equipped with powerful turboprop and turbojet engines, provided with most modern air compressors. There are 5 figures.

Card 1/1

CIOC, D.

CIOC, D. Analytic method for the calculation of the maximum moment for girders with simple support. p. 183.

Vol. 3, no. 5, May 1956
REVISTA TRANSPORTURILOR
TECHNOLOGY
Bucuresti, Rumania

So: East European Accession, Vol. 7, no. 3, March 1957

CIOC, D.; SPATARU, A.

Studies on a model of the entering of a river harbor. p. 415.

HIDROTEHNICA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romina)
Bucuresti, Rumania. Vol. 3, No. 11/12, Nov./Dec. 1958.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 6, June 1959.
Uncl.

CIOC, D., conf., ing.

Characteristic forms of the flow at the branchings and right angle junctions. Hidrotehnica 6 no.10:333-336 0 '61.

1. Membru al Comitetului de redactie, "Hidrotehnica".

(Hydraulics)

CIOC, D., conf. ing.

National Hydraulic Conference in Budapest. Meteorologia
hidrol gosp 6 no.2:168-169 '61.

GIOC, D., conf. ing.

Calculation of sonic transmissions with discontinuities.
Studii hidraul 5:61-127 '63.

GIOC, D., conf. ing.

The role of retaining flaps in pumping equipment. Hidrotehnica
8 no. 6: 197-201 Je '63.

CIOC, D., conf. ing.; CRISTEA, Al.; MARUTA, Al., ing.

Some problems on the graphic calculation method of nonper-
manent motion in pipes under pressure. Hidrotehnica 8 no.7:
237-242 J1'63.

CIOGA, V.

Technique of growing and processing Pb and Zn large monocrystals
for monochromatization of neutron fascicles. Studii cerc fiz 14
no.3:317-327 '63.

1. Institutul de fizica atomica Bucuresti.

CIOCALTEA, V.
(4153)

Methode de dosage de la tyrosine des peptides seriques A method for the estimation of tyrosine in serum proteins Bulletin Acad. Medecine Roumainie 1947, 12/1-2
(159-163)

This new colorimetric method gave values of 2.5 to 22.0 mg. per litre for the polypeptide tyrosine content of the serum of normal individuals.

Matiu-Bucharest

So; Excerpta Medica, Vol II, No. 10, Section II, August 1949

CIOCAN, A., dr.

Present knowledge concerning the correlation between the morphological and functional substrates in certain renal diseases. Med. intern., Bucur 12 no.12:1761-1769 D '60.

1. Circumscriptia sanitara Negru-Voda, Reguinea Constanta.
(KIDNEY DISEASES pathology)

CIOGAN, A., dr.

Renal tubular acidosis. Med. intern. 14 no.9:1053-1063 s '62.

1. Medic secundar, policlinica MTc, Brasov.
(KIDNEY DISEASES) (ACIDOSIS) (KIDNEY TUBULES)

RUMANIA/Chemical Technology - Chemical Products and Their
Application. Fermentation Industry.

H-27

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26775

Author : Ciocan Const.

Inst :

Title : Manufacture of Vermouth

Orig Pub : Rev. ind. aliment. prod. vegetala, 1957, No 2, 22-24

Abstract : Tables are shown in which are listed the amounts, calculated in accordance with a formula (see RZhKhim, 1957, 17569), of grape wine of 8-13° strength, 95° alcohol, and citric acid (kg), necessary to produce 1000 liters of red vermouth (17° strength, 15% sugar content, acidity 4.5 g H₂SO₄ / liter), and white vermouth (18°, 16% and 4.5 g/liter, respectively).

Card 1/1

RUMANIA/Chemical Technology - Chemical Products and Their
Application. Fermentation Industry.

H-27

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26747
Author : Ciocan C.
Inst :
Title : Control Apparatus in Manufacture of Spirits.
Orig Pub : Rev, Ind. aliment. prod. vegetale, 1957, No 3, 8-11
Abstract : A diagram and a description of a volumetric control apparatus of the Siemens type, used at spirits manufacturing plants, which permits recording of a volume up to 10000 or up to 100000 liters, depending on the model, after which the indicator arm returns again to the zero mark.

Card 1/1

RUMANIA / Chemical Technology, Chemical Products and Their
Application. Fermentation Industry.

H-27

Abs Jour : Ref Zhur = Khimiya, No 5, 1959, No. 17239

Author : Ciocan, C.; Rusnac, D.

Inst : NOT given

Title : Production of Fortified Wines and of Cognacs in RNR

Orig Pub : Rev. ind. aliment. prod. vegetale, 1958, No 2, 15-17

Abstract : Fortified wines are produced the grapes containing >170 gr/l
sugars basis "white" method. The mash is treated with
metabisulfite (100 - 150 mg/l SO₂) followed by placing it
into large vats (3000 - 5000 l capacity) where it is
fermented using fresh cultures of yeast. As the acidity
decreases, quantities of tartaric acid are added. At the
end of fermentation the addition of pure alcohol is made.
After 2 - 3 months time and after the clarification and
filtration steps, material is pumped into storage reservoirs.

Card 1/2

CIOCAN, C.

TECHNOLOGY

Periodical: REVISTA INDUSTRIEI ALIMENTARE. PRODUSE VEGETALE. No. 6, 1958.

CIOCAN, C. Fruitful collaboration between the Institute for Agronomic Research of the Rumanian Academy and the Vinalcool Enterprises. p. 26.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

COUNTRY	: Rumania	H-27
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 5 1960, No.	19789
AUTHOR	: Ciocan, C.	
INST.	: Not given	
TITLE	: Plastic Corks	
ORIG. PUB.	: Ind Aliment Prod Veget, 11, No 6, 179-183 (1959)	
ABSTRACT	: The physicommechanical properties of polyethylene corks are discussed and compared with those of standard corks and a description of 9 types of corks used for ordinary and champagne wines is given.	
	From author's summary	

CARD: 1/1

365

CIOGAN, C.

Sphaerotheca fusca (Fries) Elmer on *Senecio cruentus* (Masson)
De Candolle. Comunicarile AR 12 no.2:231-235 F '62.

1. Comunicare prezentata de Eug. Radulescu, membru corespondent
al Academiei R.P.R.

CIOCAN, C.; CALNEGRU, I.

Biology of *Rhizoctonia solani* Kuhn, and fight against the fungus. *Comunicarile* AR 12 no.2:237-242 F '62.

1. Comunicare prezentata de Eug. Radulescu, membru corespondent al Academiei R.P.R.

VELNICERIU, A.; SIMULESCU, Ileana; CIOCAN, C.

Physical and chemical properties of chemical means for
plant protection. Pt. 3. Rev chimie Min petr 15 no. 5:
257-260 My '64.

1. Institute of Chemical Research, Bucharest, Section
of Phytopharmaceutical Products.

PAVEL, I., prof.; GEAUSI, Gh., dr.; PIRVULESCU, M., dr.; VASILESCU, V., dr.;
CIOCAN, L., dr.

The etiological role of insulin therapy in diabetic arteritis.

Med. intern. 14 no.2:151-160 F '62.

(DIABETES MELLITUS complications)

(ARTERITIS etiology)

(INSULIN toxicology)

POPP, St., dr.; FIREZ, Al., dr.; CIOCAN, M., dr.

Considerations on upper digestive hemorrhages, Med. intern., Bucur
13 no.2:221-226 F '61.

1. Lucrare efectuata in Spitalul unificat de adulti nr. 1, Oradea.

(HEMORRHAGE, GASTROINTESTINAL etiology)

CIOCANEL, A.

Distr: 4E2c(j)

✓ Problems in the manufacture of poly(vinyl alcohol) fibers. Alexandru Lupu, Virgil Ciobanu, Ekat. Maritan, Florica Butacu, and Alecu Ciocanel (Inst. for Chem. Res., Bucuresti, Romania). *Faserforsch. u. Textiltech.* 11, 213-18 (1960).—The relations between certain manufg. operations and the properties of the resulting fibers were studied. The increase in viscosity of the pptg. bath with increasing concn. is sharpest in the 18-20% concn. range. Filterability decreases with increasing polymer concn. The viscosity decreases sharply with increasing temps. in the 20-50° temp. range and slowly at higher temps. Na₂SO₄ has high coagulating efficiency, however, to achieve a homogeneous coagulation throughout the entire fiber cross-section, the addn. of 20-30% ZnSO₄ is necessary; this will somewhat reduce the efficiency of Na₂SO₄. To avoid the crystn. of the salts the temp. of the pptg. bath must be kept between 40 and 45°. (NH₄)₂SO₄ will ppt. the poly(vinyl alc.); however, owing to its low efficiency, additives will serve no useful purpose. Baths contg. ZnSO₄ only will cause no pptn. even at high concns. Owing to the fact that the soly. of NaCl in water is limited, this salt is not practicable for use as coagulant. Acetone, cyclohexanone, EtOH, MeOH, AcOEt, and cyclohexanol also have coagulating ability; however, to a much

lower extent than inorg. salts. The soly. of poly(vinyl alc.) fibers in mild. salt solns. (used for the rinsing of the freshly pptd. fiber) is lowest with low concns., at low temp., and with contact periods not exceeding 1-2 min. The soly. of the fiber in water increases with increasing temp. and (or) increasing exposure duration and decreases with an increasing degree of stretch in the fiber. During heat-setting the initial crystallinity of the fiber will increase from 40-50% to 70-8%; this causes a redn. in shrinkage and hot-water soly. The degree of acetalization, under identical acetalizing conditions, depends upon the crystallinity of the fiber. The acetalization is considered to be confined to the fiber surface and to the amorphous portions only. Conversely, the

degree of acetalization can be used to establish the degree of crystallinity. Heat-setting in the relaxed condition causes a higher degree of crystallinity than setting under stress. Max. crystallinity is achieved by pre-setting at lower temps. (150-170°) followed by setting at higher temps. (220-30°) without stress. Fibers with a high (50-64%) degree of acetalization and a low degree of crystallinity show the highest shrinkage in hot water, while fibers in which only 1/3 of the OH groups are acetalized will not shrink even at a high degree of crystallinity.

G. J. Brown

7
1960 (10)
1

CIOCANELEA, Radu

On the geologic situation of the eruptive bodies in the
Deva region. Dari seama sed 48:57-67 '60/61 [publ.'62]

RUMANIA/Chemical Technology. Chemical Products and Their
Application. Medicinals. Vitamins. Antibiotics.

H-17

Abs Jour: Ref Zhur-Khim., No 13, 1958, 44303.

Author : Polovrageanu I., Ciocanelea V., Mihailescu M.

Inst :

Title : Substitution of Ethyl Benzoate for Benzyl Alcohol
in Oil Solutions for Injection.

Orig Pub: Farmacia (Roman), 1957, 5, No 2, 123-126.

Abstract: A study was made of the possibility of substituting ethyl benzoate, of domestic manufacture, for benzyl alcohol, in a number of oil solutions for injection. From the performed investigations it has been ascertained that in these solutions the benzyl alcohol can be successfully replaced by the ethyl ester of benzoic acid.

Card : 1/1

Ciocanalea, V.

RUMANIA

POP, S., Lecturer; HOLAN, T., Lecturer; CIOCANALEA, V., Professor;
POGINGEANU, P.; URAY, Z.; KORY, M.; BAN, I.

Laboratory of Pharmacodynamics, Nuclear Medicine, Galenic
Pharmacy, Institute of Medicine and Pharmacy, Cluj.
(Laboratorul de farmacodinamie, Medicina nucleara,
Farmacie galenica, I.M.F. Cluj) - (for all)

Bucharest, Farmacia, No 4, Apr 63, pp 203-207.

"Absorption of Labelled Sodium Iodide (I^{131}) Via the
Rectal Mucosa."

(7)

CIOCANELEA, S. V.

RUMANIA / Chemical Technology, Chemical Products and Their Application, Part 3. - H-17
Drugs, Vitamins, Antibiotics.

Abs Jour : Ref Zhur - Khim., No 14, 1958, No 47777

Author : M. Sternberg, B. Benis, A. Solomon, Renee Ghimpu, Luliana Conu, A. Miss, I. Andronic, Ciocanelea, A. Prialnic, Alice Ilian, Hermia Schreiber.

Title : Dicillin (Dipenicillinate of N,N'-Dibenzylethylenediamine).

Orig Pub : Rev. cmin., 1957, 8, No 5, 339 - 341

Abstract : Methods of N,N'-dibenzylethylenediamine dipenicillinate preparation of chrystalline penicillin G or various intermediate phases of its extraction or purification are described. Hints concerning the preparation of some Galenic forms (tablets and injection suspensions) and the methods of chemical and microbiological analyses are presented.

COUNTRY : RUMANIA H
CATEGORY : Chemical Technology. Chemical Products and Their
Application. Pharmaceuticals. Vitamins. Antibio-*
ABS. JOUR. : RZhKhim., No 17, 1959, No. 61802
AUTHOR : Ciocanelea, V.; Berger, T.; Gagin, F.
INSTITUTE : -
TITLE : New Therapeutically Active Derivative of Thiol,
of the Ichthyol type.
ORIG. PUB. : Farmacia (Romin.), 1958, C, No 4, 317-320

ABSTRACT : A new thiol derivative, close in the composition
to ichthyol, was derived from linseed oil. Linseed
oil was subjected to chemical treatment: sulfida-
tion, sulfonation, neutralization and purification.
A dark brown product resulted having the consis-
tency of honey and a weak specific odor. Descri-
bed are the method of preparation, physico-che-
mical properties and results of the toxicity and
pharmacodynamic action determinations in the va-
riety of pharmaceutical forms.

*tics.

Card: 1/1

CIOCANELEA, V.

SURNAME, Given Names

6

Country: Rumania

Academic Degrees:

Affiliations: -not given-

Source: Bucharest, Farmacia, Vol IX, No 7, Jul 1961, pp 413-427.

Data: "Notes Regarding Certain Syrups Proposed for the Eighth Edition of the Rumanian Pharmacopœia."

Authors:

CIOCANELEA, V., -Prof.-

ROSU, Elena, -Pharmacist.-

RUB-SAIDAC, A., -Pharmacist.-

BAN, I., -Pharmacist.-

CONSTANTINESCU, V., -Pharmacist.-

VARRO, V., -Pharmacist.-

TAUTU, N., -Pharmacist.-

SP0 921643

CIO CANELEA, V.

(57)

38

1. "Pharmacology and Its Importance in Pharmacology," Pharm. A. SUCULESCU, Pharm. Expt. V. ROVICI and Pharm. A. SPITZER; pp 193-201.
2. "Investigations in the Pharmacology of the Pyrazole Class (VII). New Compounds Having an Antihypertensive Action," Dr. V. ZALTA, Pharm. D. GIZAVAN, Pharm. Aurora I. BALIU, Pharm. S. GHEBIVA and Prof. A. SAVIDIU. Work performed at the Laboratory of Organic Chemistry (Laboratorul de Chimie Organica) of the School of Pharmacy (al Facultatii de Farmacie); Bucharest; English summary; pp 203-212.
3. "Contributions to the Study of the Stability of Chloral Hydrate and Soluble Luminal Solutions," Serg. Pharm. R. TROVAT, Pharm. Vasil. ROVICI and Pharm. St. ROVICI; English summary; pp 213-220.
4. "On the Antihypertensive Activity of Certain Pyrazole Derivatives of the 4-Benzothiazolyl Series," Prof. A. SAVIDIU, Prof. M. VANGHEZOVICI, Conf. P. GURZOVANU, Dr. V. SUCULESCU, Chemist Virginia SRAIU, Chemist Gabriela Ionescu, Dr. Dr. MARIUSCH, Dr. Eng. POPESCU and Dr. A. POPAI; English summary; pp 219-227.
5. "Study of the Antihypertensive Action of Certain New Thiazole Derivatives (4-Yethylthiazolidines)," Conf. D. POPESCU, Conf. G. JIANU, Chemist Virginia SRAIU, Dr. D. POPESCU, Dr. M. VANGHEZOVICI, Dr. V. SUCULESCU, Dr. A. POPAI, Dr. Eng. POPESCU and Chemist Rita SCVARANZ; English summary; pp 229-233.
6. "Study of Galenic Excipients for Various Galenic Substances with a Proposed Acetate," Prof. V. GIOVANITA, Pharm. I. BALIU, Pharm. V. ZALTA, Dr. I. SAVULESCU and Dr. V. SUCULESCU. Work performed at the Organic Department (Catedra de Chimie Organica) of Clinic II for Ophthalmology (Clinica II-a de Oftalmologie); pp 235-237.
7. "Contribution to the Study of the Copper Content of Bread Made of Various Flours," Pharm. V. ILEA and Pharm. V. ROVICI; English summary; pp 239-242.

EXCERPTA MEDICA Sec 6 Vol 13/3 Internal Med. Mar 59

1371. CLINICAL EXPERIENCE IN THE TREATMENT OF TETANUS WITH A CURARE-LIKE SUBSTANCE - Klinikai tapasztalatok curara-szerű anyag alkalmazásával a tetanus-betegség gyógykezelésében - Cioccato E. and Harkányi I. Torino-i Tudományegyet. Általános Sebészeti Klin. - ORV. HETIL. 1958, 99/20 (680-682)

Nineteen cases in adults were treated with 3-(*o*-methoxyphenoxy)-1:2-propanediol (guaiacol glyceryl ether), an analogue of mephenesin. This drug prevents spasm without giving rise to respiratory paralysis. Treatment was continued for 7 to 11 days. Eighteen patients recovered completely and one died. Supportive therapy was given by serum and penicillin. The specific treatment was given in the form of an i. v. infusion 8 to 12 g. daily. There were no complications. It is considered that this method of treatment is far superior to anything attempted so far.

Lorber - Sheffield (L,6,7,8)

RUMANIA / Chemical Technology. Chemical Products. H
Fermentation Industry.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68934.

Author : Ciocau C.

Inst : Not given.

Title : Control Instruments in the Vodka Manufacturing. II.

Orig Pub: Rev. ind. aliment. prod. vegetale, 1957, No 4, 10-13.

Abstract: No abstract. For Part I refer to Ref. Zhur-Khimiya, 1958, 26747.

Card 1/1

86

CIOCHIA, V.

RUMANIA / General and Specialized Zoology. Insects. P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6635.

Author : Constantineanu, Mihai., Andriescu, Ionel., Ciochia,
Victor.

Inst : Iasi University.

Title : A Contribution to the Study of the Fauna of
Ichneumon Flies, Sub-family Ichneumoninae Forst.,
in the North-Western Part of Craiova in Rumania.

Orig Pub: An. stiint. Univ Iasi, 1956, Sec 2, 2, No 1,
85-111.

Abstract: A faunal list containing 46 species and varieties
of ichneumon flies including 18 varieties not
known in science, 7 species and varieties not re-
corded in Rumania and 14 species not recorded in
Craiova is published. -- G. A. Viktorov.

Card 1/1

CIOCEA, I.

34

Buchanan, John W. Mason, Vol VII, No 21, 1 bar CA, 1962

1. "Identification and Identification of anti-infectious Chemotherapy in Protein-synthesis Inhibitors" Conf. C. (Washington) pp 1133-1136.
2. "Contributions to the Identification of the Factors Responsible for the Failure of Chemotherapy in Protein-synthesis Inhibitors" In "The Proceedings of the 6th International Conference on Antimicrobial Chemotherapy" (London) pp 1133-1136.
3. "Properties of the Enzymes of Metabolism in Alcoholic Patients with Liver Disease" Journal of Clinical Investigation, pp 1133-1136.
4. "The Enzymes of Metabolism in Alcoholism" In Journal of Clinical Investigation, pp 1133-1136.
5. "Comparative Values of Pathologic Processes in the Gastrointestinal Tract of Protein-synthesis Inhibitors" Journal of Clinical Investigation, pp 1133-1136.
6. "Comparative Values of Pathologic Processes in the Gastrointestinal Tract of Protein-synthesis Inhibitors" Journal of Clinical Investigation, pp 1133-1136.
7. "The Epidemiology of Protein-synthesis Inhibitors" Journal of Clinical Investigation, pp 1133-1136.

KHULUBEY, Khoriya [Khulubei, Horia], akademik; BARVIK, Gaynts, prof., laureat
Leninskoy premii; RUSKOV, Konstadin; CHICHERSKU, F. [Ciocerscu, F.]

Atomic reactors today and tomorrow. Nauka i zhyttia 12 no.5:47-48
My '62. (MIRA 15:7)

1. Direktor Instituta atomnoy fiziki Akademii nauk Rumynskoy Narodnoy Respubliki (for Khulubey).
 2. Zamestitel' direktora Ob"yedinennogo instituta yadernykh issledovaniy (for Barvik).
 3. Zamestitel' direktora Instituta fiziki Akademii nauk Bolgarii (for Ruskov).
 4. Zamestitel' direktora Instituta atomnoy fiziki Akademii nauk Rumynskoy Narodnoy Respubliki (for Chichersku).
- (Nuclear physics—Congresses)

CIOCHIA, VICTOR

RUMANIA / General and Specialized Zoology. Insects. P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6641.

Author : Constantineanu, Mihai, I., Suciu, Ioan., Andre-
escu, Ionel., Ciochia, Victor., Pisica, Constantin.

Inst : Iasi University.

Title : A Contribution to the Fauna of the Chalcids (Chal-
cidoidea Ashmead 1889) Parasitic on the Aporia
Crataegi L., in the Neighborhood of Jassy in Ru-
mania.

Orig Pub: An stiint. Univ. Iasi, 1956, Sec 2, 2, No 1,
113-125.

Abstract: Eight species of chalcids were hatched from the
chrysalises of the Aporia crataegi L. Drawings
of them are given. -- M. N. Nikol'skaya.

Card 1/1

Crochinda

2 The composition of tar obtained on dry distillation of willow. Gheorghe Botex, Mihai Marinescu, and Ana Clochina. *Acad. rep. populare Romane (Iasi), Studii cercetari chim.* 5, No. 1/2, 221-32 (1954).—The tar yield obtained on dry distn. of willow is a linear function of the tree age and surpasses that from beech. The results compared with those from beech show that the yields and compn. of acids and light oils differ little; the yield in heavy oils, of identical compn., is lower; because of a different lignin structure, the phenol and creosote yields are 3 times higher, whereas the guaiacol and cresol yields are lower; the pharmaceutical creosote derived from the crude creosote from willow meets the requirements of the local pharmacopola and thus is applicable for antiseptics and disinfectants. T. Z. Dénessy.

RUMANIA/Chemical Technology - Chemical Products and Their Applications - Wood Processing Industry. Hydrolytic Industry. H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37620

Author : Botez, Gh., Marinescu, M., Ciocina, A.
Inst : -
Title : Composition of Light Willow Wood Oil Obtained by Dry Distillation of Willow.

Orig Pub : Bul. Inst. Politehn. Iasi, 1955, 1, No 1-2, 123-129

Abstract : Light oil, obtained by dry distillation of willow wood in which its content is ~ 2%, has $d_{20} = 0.899$ and a distillation range from 48-163°C. Water extraction with subsequent distillation of the extract (up to 93°C) yields a mixture from which the following substances may be isolated (wt. %): acetone 10.7 methylketone 5.3, CH_3OH 5.4, and C_2H_5OH 2.5.

Card 1/3

14

RUMANIA/Chemical Technology - Chemical Products and Their Applications - Wood Processing Industry. H.
Hydrolytic Industry.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37620

Vacuum distillation of water insoluble oil fraction (~ 75%) (58°C fraction) yields a mobile, almost colorless liquid whose $d_{20} = 0.915$ and which consists of 91% of $\text{CH}_2\text{COOCH}_3$. From the remaining part of the water insoluble fraction the following cuts are obtained in the 58-105°C temperature range: 60-75°C fraction, containing 2-methyl-furane which may be produced in pure state ($d_{20} = 0.901$, $n_{20}^D = 1.42$) by redistillation at 62-65°C; 80-98°C fraction, containing α - α' -dimethylfurane and α - β' -dimethylfurane, (redistillation of the latter fraction (93-96°C) yields a liquid of $d_{20} = 0.899$ and $n_{20}^D = 1.43$). Fractional distillation of 105-165°C cut yields (wt. %): toluol 25, ethylbenzol 9.5, m- and p-xylols 12.3 o-xylol 8, cumol 6, mesitylene 10 and other substances. Asphalt residue yields a tar

Card 2/3

Ciobina, C.

#

Influence of Cutting Speed on the Change of Mechanical Properties of Chips from Annealed Steels / M. Rosca, A. Simonescu and C. Ciobina. (Buletinul Institutului Politehnic din Jassy, 1955, 1, (1-2), 403-416). [In Rumanian; French and Russian Summaries]. Calorimetric measurements of the mean temperature of chips is given. The method is simplified and can be used over a wide range of cutting speeds. Temperature at the cut is determined thermoelectrically. It is found that above a certain speed the temperature, apart from a very thin surface layer, decreases as the rate increases. The measurements are in agreement with previous work.

PR

CIOCHINA, G.

Case-hardening of carbon steel. I. (General). II. Case-hardening of S12A 850-49 quality carbon steel with a new mixture based on calcium carbonate. III. With a new mixture based on dolomite. I. Farces, J. Colquhoun, G. Hillier, C. Cochran and E. Andrew. *Phil. Mag. Phys. Juss.* 1955, 1, 417-431, 433-442, 443-460.

I. Detailed studies of case-hardening of carbon steel with $CaCO_3$, $NaCl$ -charcoal mixtures are reported. Excellent results were obtained with proportions 15 $CaCO_3$, 7 $NaCl$. The results are similar to those obtained with mixtures of $CaCO_3$ and Na_2CO_3 .

II. Carbon steels of OLC10 and OLC16 quality were case-hardened with the same mixture. The optimum temp. of the process is 870-900°. The thickness, structure and hardness of the hardened surface layer was studied in relation to temp. and time.

III. The substitution of raw dolomite for $CaCO_3$ or Na_2CO_3 in the case-hardening mixture was investigated. At temp. of 840-820°, the results indicate the feasibility of the substitution. The optimum composition of the mixture was 20 dolomite, 7 $NaCl$, 73% charcoal. (From French summary.) J. S. U.

9
15

PM
NY

CIOCHINA,
CIOCHINA C

Din. 11

Hardenig special steels by aid of new calcium carbonate-
and dolomite-bas mixtures. Toma Farcas, Tiberiu Golgo-
tu, Sh. Alina, C. Ciocina, and Emil Andrei. *Sci.*
Ind. Politeh. Jari 2, No. 3-4, 335-49 (1980) (in Romanian)
(Russian and French summaries); *ibid.*, C.A. 51, 112191.
Solid mixts. of CaCO₃ (I) and dolomite (II) are used for the
hardenig of special steels, since good results were obtained
earlier for the hardening of C steels and stainless steels.
The mixts. contain 1 or 11. NaCl, and charcoal. The hard-
ening was done with 8 special steels from the Romanian
STAS, the Soviet GOST, and the German DIN standards,
and the results show that these mixts. can well replace the
ones contg. BaCO₃, now used. The thickness of the hard-
ened layers was measured as a function of time, also the
hardnesses and structures were detd. to see if they agree
with the ones specified in the standards: the specifications
are met.

Werner Jacobson
yaf

CA
CIOCCHINA, I. N.

2

The variation of volume of elements participating in a chemical reaction: $a + b = c$. I. N. Ciocchina. *Bull. Acad. Polytech. Ser. 1*, No. 3, 117-20 (325-33) (1940). — Data for the hypothetical reaction of pos. elements with neg. elements are used to show that $\Delta V_a + \Delta V_b = nV_c$, where n is a small integer. ΔV_a is the difference between the sum of the vols. of the 2 reactants, $V_a + V_b$, and the vol. of the reaction product V_c . Thus, $\Delta V_a = V_a + V_b - V_c$. ΔV_b equals $V_c - V_b$, the vol. of the product c , minus the vol. of the reactant b . As an example, if $a = \text{Cl}$; $b = \text{Li}$; then $V_a = 11,219.00$; $V_b = 11.00$; $V_c = 11,219.00$; $V_c = 20.00$; $\Delta V_a = 11,198.51$; $\Delta V_b = 7.49$; and $\Delta V_a + \Delta V_b = nV_c$, $11,198.51 + 7.49 = n \cdot 11,206$, and $n = 1$, the group corresponding to Li. Clyde McKinley

ASS-55A METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

FROM SOURCE	FROM SOURCE	FROM SOURCE	FROM SOURCE
FROM SOURCE	FROM SOURCE	FROM SOURCE	FROM SOURCE

CIOCHINA, I. (N.)

FA 21T20

ROMANIA/Chemistry - Energy
Chemistry - Systems

Jul/Dec 1946

"New Theory on the Origin of the Energy in a Chemical System, Part II," I. Ciocchina, G. Calistru, 7 pp

"Bul Politehnicii 'Gh Asachi din Iasi" Vol I, No 2

Article discusses the electro-kinetic energy in electrolysis (movement of electrical particles such as electrons, ions, hydrate ions, electrically-charged drops or corpuscles, etc.), and derives formulas related to Gibbs; and Helmholtz' on electrical energy in solutions.

21T20

137 200 20/10

SUBJECTS AND SUBJECTS INDEX

2

CC
CIOCCHINA, I. N.

A new theory of the origin of energy in a chemical system. I. I. N. Ciochina (Scots Polytech., Jassy). *Bull. Acad. polytech. Jassy* 1, No. 1, 73-83 (1946); cf. *C.I.* 43, 7162. —The energy in a chem. system may appear as energy of luminescence, energy of ionization, heat of soln., development of color. Each of these forms is treated at length in this paper. The wave phenomena of light are developed mathematically and the wave nature of matter is used to explain darkness, color, and the lack of color or invisibility. The energies involved in the disorn. of salts, soln. of substances, and in the production of color are treated. II. The electrokinetic energy in electrolysis. I. N. Ciochina and C. Coltraru. *Bull. Acad. polytech. Jassy* 1, No. 2, 129-35 (E14-40) (1946). —In the equation $\frac{1}{2} m v^2 = e_0 E$ (for the electron) is substituted m_0 , the mass of the ion; E , the potential of the unit field; e_0 , the elementary charge of the ion, and v the mobility of the ion to obtain $m_0 v^2/2 = e_0 E$, which expresses the energy acquired by the ion in a unit field. This formula shows that the electrokinetic energy required in a unit field is the same for all elec. particles and is a const. From this it also is seen that $e_0/m_0 = v^2/2E$. Data are listed for several anions and cations showing the relation of the values represented by the above symbols. The relation of this approach to that of Debye, Thomson, and Gibbs and Helmholtz is given. Civde MrKiev

ASS-51A METALLURGICAL LITERATURE CLASSIFICATION

SUBJECTS INDEX

SUBJECTS INDEX

PA 21T18

RUMANIA/Chemistry - Reactions
Chemistry - Mathematics

Jul/Dec 1946

"On the Variation of the Volume of Elements Participating in the Chemical Reaction: $a + b = c$," I.N. Ciochina, 8 pp

"Bul Politehnicii 'Gh Asachi' din Iasi" Vol I, No 2

Relations are found between ∇V_a , ∇V_b , ∇V_c , and heat. Included are tables showing stoichiometric relations between a, b, c.

21T18

